

UNIVERSITY OF LOUISIANA AT LAFAYETTE

PHYSICS 213

Catalog Data: Physics. (3,0,3). Designed to introduce the basic principles of physics to elementary and non- science secondary school teachers. Emphasis will be placed on the development of an appreciation of the goals of physics as well as understanding of the basic principles of the physical world that the student encounters.

Textbook: *Conceptual Physics*, by Addison Wesley, 10th Ed.

Coordinator: John R. Meriwether, Professor of Physics and Head of the Department

Topics: [with contact hours (50 min. periods) spent each]

1. Measurement (1 hr)
2. Linear Motion (4 hrs)
3. Projectile and Satellite Motion (1 hr)
4. Newton's Laws of Motion (2 hrs)
5. Momentum (2 hrs)
6. Work, Power, Energy (3 hrs)
7. Rotational Motion (2 hrs)
8. Gravitation (2 hrs)
9. Temperatures, Heat, and Expansion (2 hrs)
10. Heat Transfer (2 hrs)
11. Charge of State (2 hrs)
12. Archimedes Principles (2 hrs)
13. Vibrations and Waves (2 hrs)
14. Sound (1 hr)

Grades: Grades will be assigned based on the students' performance on examinations, quizzes, and/or other assignments. A schedule of these will be provided separately.